simex

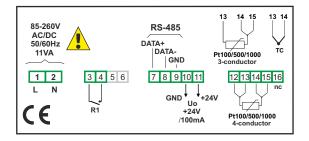
SRT-457

- meter in tight, wall mounting case
- 5 57 mm LED display
- input: thermoresistance or thermocouple
- 1 relay output (or OC)
- power supply output 24V DC
- RS-485 / Modbus RTU

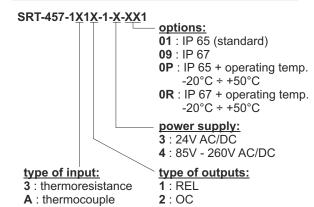
The **SRT-457** digital meter has one input: thermoresistance (Pt100/500/1000) or thermocouple (K, S, J, T, N, R, B, E). Measurement is linearised by the polynomial characteristics. The device with thermocouple input has additional measurement range (-10 ÷ 90 mV) mainly for diagnostics of measurement circuits. The meter is equipped with 4 LED diodes, indicating exceeding of particular thresholds (R1, R2, R3, R4), Relay (or OC) output makes it possible to control processes ON/OFF type. The device features a 4-button keyboard for programming basic settings, which for greater security is located under the front cover. In order to make setting changes without unsealing the casing, remote control can be included by means of an (as accessories) infrared remote control unit. The keyboard on this remote control unit is the same as the device's keyboard (this applies to the type IP 67 casing).

- signal peak value detection,
- display brightness adjustable in 8 steps,
- automatic recognition of 3 and 4-conductor connection (Pt inputs),
- automatic compensation of TC cold ends temperature,
- two types of case: IP 65 and IP 67.

Examplary pin assignment



Ordering







IP 65

Typical applications

1. Measuring of temperature in cold store in smoked sausages factory.



Technical data

Power supply: 19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC, all separated Power consumption: for 85 ÷ 260V AC/DC and 16V ÷ 35V AC power supply:

max. 11 VA; 19V ÷ 50V DC power supply: max. 8 W

Display: LED, red, 4 x 57 mm, with 8-step adjustment of brighness

Input:

thermoresistance: Pt100, Pt500, Pt1000 (automatic recognition of 3 and 4-conductor

connection, resistance compensation of connecting conductors from 0 to 20 Ω at any conductor); measuring range: -100°C ÷ 600°C;

resolution: 0,1°C

thermocouple: type K, S, J, T, N, R, B, E; measuring range: **K**: -200°C ÷ +1370°C;

S: -50°C ÷ +1768°C; J: -210°C ÷ +1200°C; T: -200°C ÷ +400°C; N: -200°C ÷ +1300°C; R: -50°C ÷ +1768°C; B: +250°C ÷ +1820°C; E: -200°C ÷ +1000°C; resolution: 1°C, additional range -10 ÷ +90 mV

Accuracy: 0.1% @25°C Stability: 50 ppm/°C

Output: 1 relay 1A/250V AC (coso=1) or OC 30mA/30VDC/100 mW

Transducer power supply output: 24V DC +5%, -10% / max. 100 mA, stabilized, not insulated from measuring inputs

Communication interface: RS-485, 8N1 and 8N2, 1200 bit/s ÷ 115200 bit/s, Modbus RTU (not galvanically insulated)

Operating temperature: 0°C ÷ +50°C (standard), -20°C ÷ +50°C (option)

Storage temperature: -10°C ÷ +70°C (standard), -20°C ÷ +70°C (with option 0P or 0R)

Protection class: IP 65 (standard); IP 67 (option) Case: wall-mounted (depends on IP version)

Case material: ABS + glass fibre

Case dimensions: IP 65 type case: 215 x 185 x 118,2 mm IP 67 type case: 230 x 140 x 96,5 mm

Accessories



IR remote controller **SIR-15**